

HEALTHY SOILS PRACTICES ~ Practices, Benefits and Payment Rates ~ Fall 2019

Practice**	Land Type	Practice Description	Estimated MTCO ₂ e/ac/yr (USDA COMET Planner)	Agronomic Benefits	Community Benefits	Incentive / Payment Rate (CDFA) *	Incentive / Payment Rate (NRCS EQIP) *
Compost Application (C:N>11)	Perennial Cropland 2-8 tons/acre	Apply compost (with hose or tractor) on crop land at rate of 2-8 tons/acre	4-5	<ul style="list-style-type: none"> - Yield Improvements - Improved Microbial community - Reduced application of nitrogen fertilizer - Improved soil water holding capacity, percolation and infiltration - Improved drought tolerance - Improved soil structure and biodiversity 	<ul style="list-style-type: none"> - Reduced reliance on landfill - Reduced reliance on imported water - Carbon Sequestration 	\$50/ton 2-8 tons/acre	n/a
Compost Application (C:N>11)	Annual Cropland 3-8 tons/acre	Apply compost (with hose or tractor) on crop land at rate of 3-8 tons/acre	4-5			\$50/ton 3-8 tons/acre	n/a
Compost Application (C:N>11)	Rangeland 6-8 tons/acre	Apply compost (with hose or tractor) on rangeland at rate of 6-8 tons/acre	4-5			\$325/acre (\$50/ton @6.5/acre) IMPLEMENTATION COST: \$280/acre for Ted Chamberlin Ranch (\$29.50 per ton of compost @6.5 tons/acre + \$90 per acre for spreading)	n/a
Mulch Application (Wood Chips)	Orchards, Vineyards and Row Crops	Apply and maintain mulch on crop land berms	0.2	<ul style="list-style-type: none"> - Improved water infiltration and percolation - Reduced irrigation demand - Fungal disease remediation - Improved drought tolerance 	<ul style="list-style-type: none"> - Reduced agricultural runoff and erosion - Reduces stormwater runoff - Reduced reliance on imported water 	\$1712/acre	\$1019.48/acre
Cover Crops	Orchards, Vineyards and Row Crops	Seed multispecies cover crop in orchard rows or in between plantings of annual crops	0.5	<ul style="list-style-type: none"> - Reduction in soil compaction - Increased soil porosity and infiltration - Increased soil nutrients - Livestock feed - Pest reduction 	<ul style="list-style-type: none"> - Improved surface water quality through reduced erosion - Provides habitat for biodiversity and pollinators - Maintains Soil Carbon Stock 	Basic (one species): 126.44/acre Multiple Species: \$147/acre	Basic (one species): \$50.55/acre Multiple Species: \$56.62/acre Basic Organic: \$62.06/acre
Conservation Cover (Permanent cover)	Orchards, Vineyards and Row Crops	Establishing and maintaining permanent vegetative cover	1	<ul style="list-style-type: none"> - Improved nutrient cycling - Increased organic matter - Reduced soil erosion - Increased weed suppression - Improved water infiltration and percolation 	<ul style="list-style-type: none"> -Reduced runoff and erosion -Reduced emissions of particulate matter -Enhanced wildlife, pollinator, and beneficial organism habitat -Improved soil health 	Introduced Species: \$203.16/ac Native Species: \$280.7/ac Pollinator Species: \$1571.88/ac Monarch Species: \$2,222.26/ac	Introduced Species: \$100.84/acre Native Species: \$141.20/acre Pollinator Species: \$816.64/acre Monarch Species Mix: \$1,052.98/ac
No Till or Strip Till	Orchards, Vineyards and Row Crops	Intensive Till to Reduced-Till on Irrigated Cropland or Non-Irrigated Cropland	0.2	<ul style="list-style-type: none"> - Reduced evaporation - Maintains soil nutrients and biodiversity 	<ul style="list-style-type: none"> - Improved surface water quality - Reduced erosion - Reduced reliance on imported water - Maintains Carbon stock in soil 	\$30/acre	\$16.20/acre
Silvopasture	Rangelands, Pastureland	Planting of trees or shrubs on grazed rangeland	0.7	<ul style="list-style-type: none"> - Improved nutrient cycling - Improved Microbial community - Improved water infiltration - Moderates microclimate for livestock - Provides additional fodder - Provide forage, shade, and shelter for livestock 	<ul style="list-style-type: none"> - Provides biodiversity habitat - Carbon Sequestration 	\$193/acre	Establish Trees, Existing Grasses: \$114.70/acre
Tree/Shrub Establishment	Rangeland, Cropland	Establishing woody plants	18	<ul style="list-style-type: none"> - Increased pollinator presence - Defends against wind and extreme weather conditions - Increased biomass carbon and soil carbon - Can serve as renewable biofuel and feedstock source 	<ul style="list-style-type: none"> -Increase plant diversity -Create habitat for desired wildlife species -Control erosion -Carbon sequestration 	\$915.3/acre	Conservation, 1 gal pots: \$6.82/ea Conservation, 1 gal pots, protected: \$18.80/ea

** Sample list of practices and benefits. Talk to your local RCD or NRCS representative to learn about other practices.

*Payment rates listed are 2019 CDFR and NRCS rates. Subject to change in 2020.